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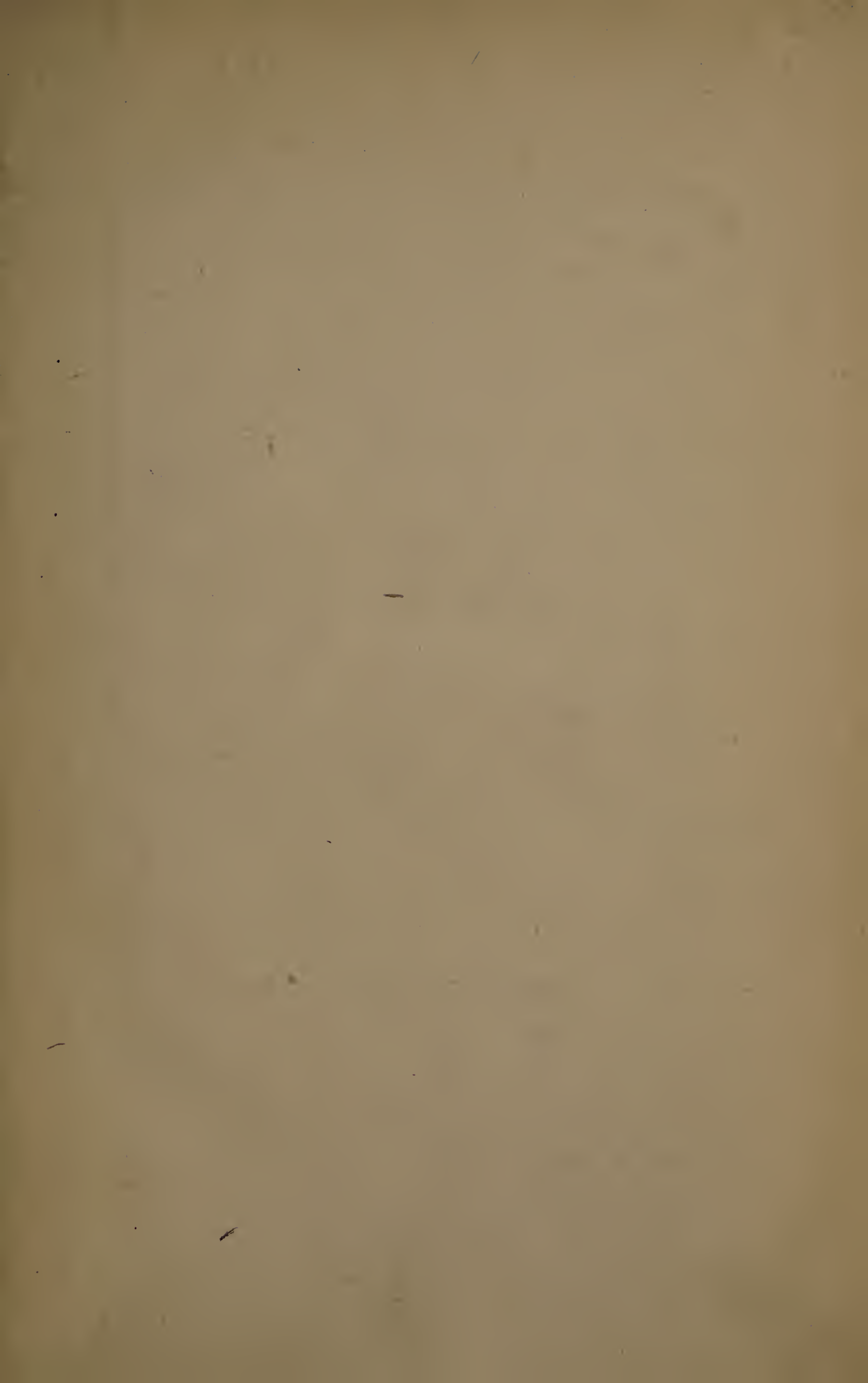
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**Electrotyper**

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SPECIMENS OF TYPE

IN USE BY

S. W. GREEN'S SON.

CONTAINING ALSO

DIRECTIONS FOR "CASTING OFF" AND ESTIMATING; SIZES OF PAPER NEEDED FOR A GIVEN SIZED LEAF; EQUIVALENT WEIGHTS OF PAPER; QUANTITIES OF PAPER REQUIRED, 480 SHEETS TO REAM; TABLE OF SIGNATURES; TABLE OF SIZES TO WHICH PAPER WILL FOLD; CAPACITIES OF TYPES; AND HOW MANY LINES OF EACH TYPE A FOOT WILL CONTAIN.

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NEW YORK:

S. W. GREEN'S SON, ELECTROTYPED, PRINTER AND BINDER,

74 & 76 BEEKMAN STREET.



(17371)

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74 & 76 Beekman Street,

NEW YORK.



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## HOW TO "CAST-OFF," OR ESTIMATE.

---

AN author or publisher having in his hand a manuscript, collection of printed copy, or a combination of both, wishes to learn what shape and size of page will best suit his purpose. The first question is, How many words are there in the copy to be "put in hand"? Occasionally, calculations are made by letters instead of by words. Of course this is theoretically more accurate. A "Johnsonian" writer will not make as many words from a given number of letters as will another who uses short and simple words. But practically the words of a given composition furnish an approximately accurate measure. How shall their number be ascertained?

Take average pages and count the number of lines in each. Count in different places the words in ten consecutive lines, divide by ten, and thus get a general average of words in a line. This multiplied by the average number of lines in a page gives the average number of words in a page, and this multiplied by the number of pages gives the total number of words. With printed copy all of the same type and measure the result thus obtained ought to closely approximate correctness. So of an occasional mass of manuscript written uniformly in the same hand on the same size and ruling of paper. But generally judgment must be exercised, the copy averaged in groups most nearly alike in contents, and the results added. Suppose we have 1146 pages manuscript, 27 lines to a page, and 9.5 words to a line. The total number of words will be 293,949. This is the dividend.

Try Small Pica Old Style No. 1 leaded, 8vo, as on page 18. Divide 293,949 by 363, the number of words in that page, and we learn that the manuscript will make 810 printed pages. But so many pages are not wanted: we would like say 640.  $293,949 \div 640 = 460$  as the number of words wanted in a page. Turn to third column of Table on page 5, and Bourgeois Old Style No. 3 is the largest type leaded that will take the matter into 640 pages, and that page takes in more words (523) than are wanted. How large must a page of Long Primer No. 13 leaded (page 22) be made, to take in 460 words? Divide



## HOW TO "CAST-OFF," OR ESTIMATE.

460 by 16.5, the number of words to the square inch in that type, and we have 28 as the number of square inches needed. This, a page  $4 \times 7$  inches will contain.

Or suppose the same number of words to be put into a 12mo the usual size, about 20 square inches in page. Brevier Old Style No. 3 (pages 36, 37) is the type selected. The leaded page will contain ( $20 \times 23.1 =$ ) 462 words, and the manuscript will make ( $293,949 \div 462 =$ ) 637 pages. The solid page will contain ( $20 \times 29.5 =$ ) 590 words, and the whole will make ( $293,949 \div 590 =$ ) 499 pages.

These illustrations might be endlessly varied, but are enough to indicate the principle of the Table on page 5, and to assist the intelligent user to a sufficiently correct result. The page decided upon, its measurement in ems can be easily learned by the use of the type-gauge furnished with this pamphlet.

## PAPER.

Next comes the question of paper. No arbitrary direction can be given as to the margin needed for any given page. Let us go back to our illustration: 640 pages  $4 \times 7 = 28$  inches. Call the leaf  $5\frac{3}{4} \times 9$ . Turn to Table on page 6, and we see that  $24 \times 38$  will print 16 pages at once. What thickness or weight shall the paper be? The thickness of "Harper's Weekly" is selected, and is known to be say  $33 \times 46$  100 lb. Turn to page 7, take line commencing  $33 \times 46$  and look along the line to 100. In that column, against  $24 \times 38$ , is 60, the weight needed for  $24 \times 38$  of equal thickness with the  $33 \times 46$  100. How much paper will be needed to print 2000? Turn to page 8 and against 640 under 16 pages to form in either outside column is 40, the number of forms. In the Table on the opposite page 9, in column 2000 against 40, is 88 Re., the amount of paper needed to print the 2000, which, as the book is to be a bound one, must be increased to 90 Re. to include the blank leaves technically called "binder's waste."

Take the other illustration, that of 637 pages 12mo, 20 square inches. Make the leaf  $4\frac{3}{4} \times 7\frac{1}{2}$  inches. This needs either  $23 \times 41$  to print 24 pages, or  $30\frac{1}{2} \times 41$  to print 32 pages. Perhaps the  $30\frac{1}{2} \times 41$  is too wide for the presses you wish to use, and you select  $23 \times 41$ . You want to make a low priced book and are satisfied with the thickness of  $24 \times 38$  35. On page 7, over 35 in the  $24 \times 38$  line you find 36 in the  $23 \times 41$  line. 5000 copies are wanted. On page 8, against 648 in the 24-page column you find 27, as the number of forms, and on the opposite page under 5000 and against 27, is 148.10 Re., the amount of paper needed. Or, the presses at your command will print  $30\frac{1}{2} \times 41$ , on which you can print 32 pages at once. Perhaps you had better make a higher priced

HOW TO "CAST-OFF," OR ESTIMATE.

book and use paper equal to 24 x 38 50. Page 7 shows the equivalent weight of 24 x 38 50 to be 30½ x 41 68 lb. On page 8, under 32 pages you find that 638 pages will make 20 forms, and the opposite page shows that 5000 of 20 forms needs 110 Reams.

Or, suppose you have on hand, or can most easily get, a certain size of paper: the Table below will show what sizes of leaf are at your disposal.

Hoping that these Tables and Directions, and the specimens of different types, each with its descriptive card, will greatly shorten and lighten the labor of "casting-off" for those who receive and use this pamphlet; and hoping of course that it will be the means of adding hundreds of millions of ems to the yearly product of my composing-rooms, of bringing thousands of reams of paper to my presses and tens of thousands of volumes to my bindery, and again pledging myself to give ample money's worth in all departments, believe me

The Publishing Public's most Obedient Servant,

S. W. GREEN'S SON.

Table of Sizes to which Paper will fold and trim.

| Size of sheet. | 8 pages to form. | 16 pages to form. | 24 pages to form. | 32 pages to form. | 36 pages to form. | 64 pages to form. |
|----------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| inches.        | inches.          | inches.           | inches.           | inches.           | inches.           | inches.           |
| 19 x 24        | 5¾ x 9⅛          | 4½ x 5⅝           | 2¾ x 6            | 2¾ x 4⅝           | 3 x 3⅝            | 2⅛ x 2⅝           |
| 21 x 27        | 6½ x 10⅛         | 5 x 6⅝            | 3⅛ x 6⅝           | 3⅛ x 4⅞           | 3¼ x 5¾           | 2⅝ x 3            |
| 22 x 28        | 6¾ x 10⅝         | 5¼ x 6⅝           | 3¼ x 7            | 3¼ x 5⅞           | 3⅞ x 4¼           | 2⅞ x 3⅛           |
| 23 x 33        | 8¼ x 10¾         | 5½ x 7⅞           | 3⅞ x 7⅞           | 3⅞ x 5½           | 3½ x 6            | 2⅝ x 3¾           |
| 23 x 35        | 8½ x 11          | 5½ x 8⅝           | 4⅞ x 7⅞           | 4⅞ x 5⅝           | 3½ x 5½           | 2⅝ x 4            |
| 23 x 37        | 9 x 11⅛          | 5½ x 8⅞           | 4⅞ x 7⅞           | 4⅞ x 5⅝           | 3½ x 5¾           | 2⅝ x 4¼           |
| 23 x 39        | 9½ x 11⅛         | 5½ x 9⅝           | 4⅞ x 7⅞           | 4⅞ x 5⅝           | 3½ x 6⅞           | 2⅝ x 4½           |
| 23 x 41        | 10 x 11⅛         | 5½ x 9⅞           | 4¾ x 7⅞           | 4⅞ x 5⅝           | 3½ x 6⅞           | 2⅝ x 4¾           |
| 23 x 42        | 10¼ x 11⅛        | 5½ x 10⅞          | 5 x 7⅞            | 5 x 5⅝            | 3½ x 6¾           | 2⅝ x 4⅞           |
| 23 x 43        | 10½ x 11⅛        | 5½ x 10⅝          | 5⅞ x 7⅞           | 5⅞ x 5⅝           | 3½ x 6⅞           | 2⅝ x 5            |
| 24 x 38        | 9¼ x 11⅝         | 5¾ x 9⅞           | 4½ x 7⅝           | 4¼ x 5⅝           | 3¾ x 6            | 2¾ x 4⅝           |
| 24 x 40        | 9¾ x 11⅝         | 5¾ x 9⅝           | 4¾ x 7⅝           | 4¾ x 5⅝           | 3¾ x 6⅞           | 2¾ x 4⅝           |
| 24 x 42        | 10¼ x 11⅝        | 5¾ x 10⅞          | 5 x 7⅝            | 5 x 5⅝            | 3¾ x 6⅝           | 2¾ x 4⅞           |
| 24 x 43        | 10½ x 11⅝        | 5¾ x 10⅝          | 5⅞ x 7⅝           | 5⅞ x 5⅝           | 3¾ x 6¾           | 2¾ x 5            |
| 25 x 39        | 9½ x 12⅞         | 6 x 9⅝            | 4¾ x 8            | 4⅞ x 5⅞           | 4 x 6⅞            | 2⅞ x 5½           |
| 26 x 38        | 9¼ x 12⅞         | 6¼ x 9⅞           | 4½ x 8⅞           | 4½ x 6⅞           | 4⅞ x 6            | 3 x 4⅝            |
| 26 x 40        | 9½ x 12⅝         | 6¼ x 9½           | 4¾ x 8⅞           | 4¾ x 6⅞           | 4⅞ x 6⅞           | 3 x 4⅝            |
| 27 x 41        | 10 x 13⅞         | 6½ x 9⅞           | 4⅞ x 8⅝           | 4⅞ x 6⅞           | 4¼ x 6½           | 3⅞ x 4¾           |
| 28 x 42        | 10¼ x 13⅞        | 6¾ x 10⅞          | 5 x 9             | 5 x 6⅝            | 4⅞ x 6⅝           | 3¼ x 4⅞           |
| 29 x 43        | 10½ x 14⅞        | 7 x 10⅝           | 5⅞ x 9⅞           | 5⅞ x 6⅞           | 4⅞ x 6¾           | 3⅞ x 5            |
| 29 x 44        | 10¾ x 14⅞        | 7 x 10⅞           | 5¼ x 9⅞           | 5¼ x 6⅞           | 4¾ x 7            | 3⅞ x 5⅞           |
| 30 x 42        | 10¼ x 14⅞        | 7¼ x 10⅞          | 5 x 9⅝            | 5 x 7⅞            | 4¾ x 6⅝           | 3½ x 4⅞           |
| 30 x 43        | 10½ x 14⅝        | 7¼ x 10⅝          | 5⅞ x 9⅝           | 5⅞ x 7⅞           | 4¾ x 6⅞           | 3½ x 5            |
| 30 x 44        | 10¾ x 14⅝        | 7¼ x 10⅝          | 5¼ x 9⅝           | 5¼ x 7⅞           | 4¾ x 7            | 3½ x 5⅞           |
| 32 x 45        | 11 x 15⅞         | 7¾ x 10⅞          | 5⅞ x 10⅞          | 5⅞ x 7⅞           | 5⅞ x 7⅞           | 3¾ x 5¼           |
| 33 x 45        | 11 x 16⅞         | 8 x 10⅞           | 5⅞ x 10⅝          | 5⅞ x 7⅞           | 5¼ x 7⅞           | 3⅞ x 5¼           |
| 33 x 46        | 11¼ x 16⅞        | 8 x 11⅞           | 5½ x 10⅝          | 5½ x 7⅞           | 5¼ x 7⅞           | 3⅞ x 5⅞           |



## Capacities of Types shown in the following pages.

| TYPES.                         | Page or column in inches. | Lines in page or col. | Words in page or col. | Words in line.   | Words to sq.in. | Meas-urem't in ems. | Words to 1000 ems. |
|--------------------------------|---------------------------|-----------------------|-----------------------|------------------|-----------------|---------------------|--------------------|
| Pica No. 6 leaded.....         | 25.26                     | 32                    | 296                   | 9.2              | 11.7            | 943                 | 313                |
| “ “ solid.....                 | 25.26                     | 38                    | 349                   | 9.2              | 13.8            | 943                 | 371                |
| “ Old Style No. 1 leaded.....  | 25.26                     | 32                    | 295                   | 9.2              | 11.7            | 943                 | 313                |
| “ “ “ solid.....               | 25.26                     | 38                    | 346                   | 9.1              | 13.7            | 943                 | 367                |
| Small Pica No. 12 leaded.....  | 25.26                     | 37                    | 358                   | 9.7              | 14.2            | 1269                | 282                |
| “ “ solid.....                 | 25.26                     | 44                    | 423                   | 9.6              | 16.8            | 1269                | 333                |
| “ No. 9 leaded.....            | 25.26                     | 37                    | 384                   | 10.4             | 15.2            | 1269                | 303                |
| “ “ solid.....                 | 25.26                     | 44                    | 463                   | 10.5             | 18.3            | 1269                | 365                |
| “ Old Style No. 1 leaded....   | 25.26                     | 37                    | 363                   | 9.8              | 14.4            | 1269                | 286                |
| “ “ “ solid.....               | 25.26                     | 44                    | 434                   | 9.9              | 17.2            | 1269                | 342                |
| “ “ No. 2 leaded....           | 25.26                     | 37                    | 373                   | 10               | 14.8            | 1269                | 294                |
| “ “ “ solid.....               | 25.26                     | 44                    | 451                   | 10.3             | 17.9            | 1269                | 356                |
| Long Primer No. 13 leaded..... | 25.26                     | 39                    | 418                   | 10.7             | 16.5            | 1450                | 288                |
| “ “ solid.....                 | 25.26                     | 47                    | 508                   | 10.8             | 20              | 1450                | 350                |
| “ No. 9 leaded.....            | 25.26                     | 39                    | 447                   | 11.5             | 17.7            | 1450                | 308                |
| “ “ solid.....                 | 25.26                     | 47                    | 544                   | 11.6             | 21.6            | 1450                | 375                |
| “ Old Style No. 2 leaded..     | 25.26                     | 39                    | 444                   | 11.4             | 17.6            | 1450                | 306                |
| “ “ “ solid...                 | 25.26                     | 47                    | 535                   | 11.4             | 21.2            | 1450                | 369                |
| “ “ No. 3 leaded..             | 25.26                     | 39                    | 408                   | 10.5             | 16.2            | 1450                | 281                |
| “ “ “ solid...                 | 25.26                     | 47                    | 494                   | 10.5             | 19.6            | 1450                | 340                |
| Bourgeois No. 12 leaded.....   | 25.26                     | 44                    | 538                   | 12 $\frac{1}{4}$ | 21.3            | 1824                | 295                |
| “ “ solid.....                 | 25.26                     | 54                    | 658                   | 12.2             | 26              | 1824                | 361                |
| “ Old Style No. 3 leaded....   | 25.26                     | 44                    | 523                   | 11.9             | 20.7            | 1824                | 287                |
| “ “ “ solid.....               | 25.26                     | 54                    | 644                   | 12               | 25.5            | 1824                | 353                |
| Brevier No. 12 leaded.....     | 25.26                     | 46                    | 583                   | 12.7             | 23.1            | 2135                | 273                |
| “ “ solid.....                 | 25.26                     | 58                    | 739                   | 12.7             | 29.3            | 2135                | 346                |
| “ Old Style No. 3 leaded.....  | 25.26                     | 46                    | 584                   | 12.7             | 23.1            | 2135                | 273                |
| “ “ “ solid.....               | 25.26                     | 58                    | 743                   | 12.8             | 29.5            | 2135                | 349                |
| Minion No. 20 leaded.....      | 25.26                     | 51                    | 695                   | 13.6             | 27.5            | 2760                | 252                |
| “ “ solid.....                 | 25.26                     | 66                    | 900                   | 13.6             | 35.6            | 2760                | 326                |
| “ Old Style No. 3 leaded.....  | 25.26                     | 51                    | 762                   | 15               | 30.1            | 2760                | 276                |
| “ “ “ solid.....               | 25.26                     | 66                    | 986                   | 14.9             | 39              | 2760                | 357                |
| Nonpareil No. 20 leaded.....   | 25.26                     | 58                    | 852                   | 14.7             | 33.7            | 3680                | 232                |
| “ “ solid.....                 | 25.26                     | 77                    | 1131                  | 14.7             | 45              | 3680                | 308                |
| “ Old Style No. 3 leaded.....  | 25.26                     | 58                    | 887                   | 15.3             | 35.1            | 3680                | 241                |
| “ “ “ solid..                  | 25.26                     | 77                    | 1185                  | 15.4             | 47              | 3680                | 322                |
| Agate No. 20 leaded.....       | 13                        | 64                    | 504                   | 7.8              | 39              | 2511                | 200                |
| “ “ solid.....                 | 13                        | 89                    | 723                   | 8.1              | 55              | 2511                | 288                |
| Pearl No. 5 leaded.....        | 13                        | 67                    | 575                   | 8.6              | 44              | 2842                | 202                |
| “ “ solid.....                 | 13                        | 95                    | 828                   | 8.7              | 64              | 2842                | 291                |

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## A Foot will contain, of

| SIZE.            | Solid. | Leaded 6 to Pica. | Leaded 4 to Pica. | Leaded 3 to Pica. | Leaded 2 to Pica. |
|------------------|--------|-------------------|-------------------|-------------------|-------------------|
|                  | lines. | lines.            | lines.            | lines.            | lines.            |
| Pearl.....       | 180    | 146               | 110               | 98                | 80                |
| Agate.....       | 168    | 120               | 105               | 95                | 77                |
| Nonpareil.....   | 144    | 108               | 96                | 88                | 72                |
| Minion.....      | 124    | 96                | 87                | 79                | 67                |
| Brevier.....     | 109    | 88                | 79                | 73                | 62                |
| Bourgeois.....   | 100    | 83                | 74                | 68                | 60                |
| Long Primer..... | 90     | 75                | 68                | 63                | 55                |
| Small Pica.....  | 84     | 70                | 65                | 61                | 53                |
| Pica.....        | 72     | 62                | 58                | 54                | 48                |

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## Sizes of Paper needed for a given sized Leaf.

| Size of leaf wanted. | 8 pages to form. | 16 pages to form. | 24 pages to form. | 32 pages to form. | 36 pages to form. | 64 pages to form. | Size of leaf wanted. | 8 pages to form. | 16 pages to form. |
|----------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|------------------|-------------------|
|                      | inches.          | inches.           | inches.           | inches.           | inches.           | in.               |                      | inches.          | inches.           |
| 3 × 4                | 8½ × 12½         | 12½ × 17          | 12¾ × 25          | 17½ × 25          | 18¾ × 25½         | 25 × 34           | 5¾ × 6¾              | 14¼ × 24         | 24 × 28½          |
| 3 × 4¼               | 9 × 12½          | 12½ × 18          | 13½ × 25          | 18 × 25           | 18¾ × 27          | 25 × 36           | 5¾ × 7               | 14¾ × 24         | 24 × 29½          |
| 3 × 4½               | 9½ × 12½         | 12½ × 19          | 14¼ × 25          | 18½ × 25          | 18¾ × 28½         | 25 × 37           | 5¾ × 7¼              | 15¼ × 24         | 24 × 30½          |
| 3 × 4¾               | 10 × 12½         | 12½ × 20          | 15 × 25           | 19 × 25           | 18¾ × 30          | 25 × 38           | 5¾ × 7½              | 15¾ × 24         | 24 × 31½          |
| 3 × 5                | 10½ × 12½        | 12½ × 21          | 15¾ × 25          | 19½ × 25          | 18¾ × 31½         | 25 × 39           | 5¾ × 7¾              | 16¼ × 24         | 24 × 32½          |
| 3¼ × 4¼              | 9 × 13½          | 13½ × 18          | 13½ × 27          | 18 × 27           | 20¼ × 27          | 27 × 36           | 5¾ × 8               | 16¾ × 24         | 24 × 33½          |
| 3¼ × 4½              | 9½ × 13½         | 13½ × 19          | 14¼ × 27          | 19 × 27           | 20¼ × 28½         | 27 × 38           | 5¾ × 8¼              | 17¼ × 24         | 24 × 34½          |
| 3¼ × 4¾              | 10 × 13½         | 13½ × 20          | 15 × 27           | 20 × 27           | 20¼ × 30          | 27 × 40           | 5¾ × 8½              | 17¾ × 24         | 24 × 35½          |
| 3¼ × 5               | 10½ × 13½        | 13½ × 21          | 15¾ × 27          | 21 × 27           | 20¼ × 31½         | 27 × 42           | 5¾ × 8¾              | 18½ × 24         | 24 × 36½          |
| 3¼ × 5¼              | 11 × 13½         | 13½ × 22          | 16½ × 27          | 22 × 27           | 20½ × 33          | 27 × 44           | 5¾ × 9               | 18¾ × 24         | 24 × 37½          |
| 3½ × 4½              | 9¾ × 15          | 15 × 19½          | 14⅝ × 30          | 19½ × 30          | 22½ × 20¼         | 30 × 39           | 6 × 7                | 14¾ × 25         | 25 × 29½          |
| 3½ × 4¾              | 10¼ × 15         | 15 × 20½          | 15⅝ × 30          | 20½ × 30          | 22½ × 30¾         | 30 × 41           | 6 × 7¼               | 15¼ × 25         | 25 × 30½          |
| 3½ × 5               | 10¾ × 15         | 15 × 21½          | 16⅝ × 30          | 21½ × 30          | 22½ × 32¼         | 30 × 43           | 6 × 7½               | 15¾ × 25         | 25 × 31½          |
| 3½ × 5¼              | 11¼ × 15         | 15 × 22½          | 16⅝ × 30          | 22½ × 30          | 22½ × 33¾         | 30 × 45           | 6 × 7¾               | 16¼ × 25         | 25 × 32½          |
| 3½ × 5½              | 11¾ × 15         | 15 × 23½          | 17⅝ × 30          | 23½ × 30          | 22½ × 35¼         | ....              | 6 × 8                | 16¾ × 25         | 25 × 33½          |
| 3¾ × 4¾              | 10¼ × 16         | 16 × 20½          | 15⅝ × 32          | 20½ × 32          | 24 × 30¾          | 32 × 41           | 6 × 8¼               | 17¼ × 25         | 25 × 34½          |
| 3¾ × 5               | 10¾ × 16         | 16 × 21½          | 16⅝ × 32          | 21½ × 32          | 24 × 32¼          | 32 × 43           | 6 × 8½               | 17¾ × 25         | 25 × 35½          |
| 3¾ × 5¼              | 11¼ × 16         | 16 × 22½          | 16⅝ × 32          | 22½ × 32          | 24 × 33¾          | 32 × 45           | 6 × 8¾               | 18¼ × 25         | 25 × 36½          |
| 3¾ × 5½              | 11¾ × 16         | 16 × 23½          | 17⅝ × 32          | 23½ × 32          | 24 × 35¼          | ....              | 6 × 9                | 18¾ × 25         | 25 × 37½          |
| 3¾ × 5¾              | 12¼ × 16         | 16 × 24½          | 18⅝ × 32          | 24½ × 32          | 24 × 36¾          | ....              | 6 × 9½               | 19¼ × 25         | 25 × 39½          |
| 4 × 5                | 10¾ × 17         | 17 × 21½          | 16⅝ × 34          | 21½ × 34          | 25½ × 32¼         | ....              | 6¼ × 7¼              | 15¼ × 26         | 26 × 30½          |
| 4 × 5¼               | 11¼ × 17         | 17 × 22½          | 16⅝ × 34          | 22½ × 34          | 25½ × 33¾         | ....              | 6¼ × 7½              | 15¾ × 26         | 26 × 31½          |
| 4 × 5½               | 11¾ × 17         | 17 × 23½          | 17⅝ × 34          | 23½ × 34          | 25½ × 35¼         | ....              | 6¼ × 7¾              | 16¼ × 26         | 26 × 32½          |
| 4 × 5¾               | 12¼ × 17         | 17 × 24½          | 18⅝ × 34          | 24½ × 34          | 25½ × 36¾         | ....              | 6¼ × 8               | 16¾ × 26         | 26 × 33½          |
| 4 × 6                | 12¾ × 17         | 17 × 25½          | 19⅝ × 34          | 25½ × 34          | 25½ × 38¼         | ....              | 6¼ × 8¼              | 17¼ × 26         | 26 × 34½          |
| 4¼ × 5¼              | 11¼ × 18         | 18 × 22½          | 16⅝ × 36          | 22½ × 36          | 27 × 33¾          | ....              | 6¼ × 8½              | 17¾ × 26         | 26 × 35½          |
| 4¼ × 5½              | 11¾ × 18         | 18 × 23½          | 17⅝ × 36          | 23½ × 36          | 27 × 35¼          | ....              | 6¼ × 8¾              | 18¼ × 26         | 26 × 36½          |
| 4¼ × 5¾              | 12¼ × 18         | 18 × 24½          | 18⅝ × 36          | 24½ × 36          | 27 × 36¾          | ....              | 6¼ × 9               | 18¾ × 26         | 26 × 37½          |
| 4¼ × 6               | 12¾ × 18         | 18 × 25½          | 19⅝ × 36          | 25½ × 36          | 27 × 38¼          | ....              | 6¼ × 9¼              | 19¼ × 26         | 26 × 38½          |
| 4¼ × 6¼              | 13¼ × 18         | 18 × 26½          | 19⅝ × 36          | 26½ × 36          | 27 × 39¾          | ....              | 6¼ × 9½              | 19¾ × 26         | 26 × 39½          |
| 4¼ × 6½              | 13¾ × 18         | 18 × 27½          | 20⅝ × 36          | 27½ × 36          | 27 × 41¼          | ....              | 6¼ × 9¾              | 20¼ × 26         | 26 × 40½          |
| 4¼ × 6¾              | 14¼ × 18         | 18 × 28½          | 21⅝ × 36          | 28½ × 36          | 27 × 42¾          | ....              | 6¼ × 10              | 20¾ × 26         | 26 × 41½          |
| 4½ × 5½              | 11¾ × 19         | 19 × 23½          | 17⅝ × 38          | 23½ × 38          | 28½ × 35¼         | ....              | 6½ × 7½              | 15¾ × 27         | 27 × 31½          |
| 4½ × 5¾              | 12¼ × 19         | 19 × 24½          | 18⅝ × 38          | 24½ × 38          | 28½ × 36¾         | ....              | 6½ × 7¾              | 16¼ × 27         | 27 × 32½          |
| 4½ × 6               | 12¾ × 19         | 19 × 25½          | 19⅝ × 38          | 25½ × 38          | 28½ × 38¼         | ....              | 6½ × 8               | 16¾ × 27         | 27 × 33½          |
| 4½ × 6¼              | 13¼ × 19         | 19 × 26½          | 19⅝ × 38          | 26½ × 38          | 28½ × 39¾         | ....              | 6½ × 8¼              | 17¼ × 27         | 27 × 34½          |
| 4½ × 6½              | 13¾ × 19         | 19 × 27½          | 20⅝ × 38          | 27½ × 38          | 28½ × 41¼         | ....              | 6½ × 8½              | 17¾ × 27         | 27 × 35½          |
| 4½ × 6¾              | 14¼ × 19         | 19 × 28½          | 21⅝ × 38          | 28½ × 38          | 28½ × 42¾         | ....              | 6½ × 8¾              | 18¼ × 27         | 27 × 36½          |
| 4½ × 7               | 14¾ × 19         | 19 × 29½          | 22⅝ × 38          | 29½ × 38          | 28½ × 44¼         | ....              | 6½ × 9               | 18¾ × 27         | 27 × 37½          |
| 4¾ × 5¾              | 12¼ × 20         | 20 × 24½          | 18⅝ × 40          | 24½ × 40          | 30 × 36¾          | ....              | 6½ × 9¼              | 19¼ × 27         | 27 × 38½          |
| 4¾ × 6               | 12¾ × 20         | 20 × 25½          | 19⅝ × 40          | 25½ × 40          | 30 × 38¼          | ....              | 6½ × 9½              | 19¾ × 27         | 27 × 39½          |
| 4¾ × 6¼              | 13¼ × 20         | 20 × 26½          | 19⅝ × 40          | 26½ × 40          | 30 × 39¾          | ....              | 6½ × 9¾              | 20¼ × 27         | 27 × 40½          |
| 4¾ × 6½              | 13¾ × 20         | 20 × 27½          | 20⅝ × 40          | 27½ × 40          | 30 × 41¼          | ....              | 6½ × 10              | 20¾ × 27         | 27 × 41½          |
| 4¾ × 6¾              | 14¼ × 20         | 20 × 28½          | 21⅝ × 40          | 28½ × 40          | 30 × 42¾          | ....              | 6½ × 10¼             | 21¼ × 27         | 27 × 42½          |
| 4¾ × 7               | 14¾ × 20         | 20 × 29½          | 22⅝ × 40          | 29½ × 40          | 30 × 44¼          | ....              | 6¾ × 7¾              | 16¼ × 28         | 28 × 32½          |
| 4¾ × 7½              | 15¼ × 20         | 20 × 30½          | 23 × 41           | 30½ × 41          | 30 × 45¾          | ....              | 6¾ × 8               | 16¾ × 28         | 28 × 33½          |
| 5 × 6¼               | 13¼ × 21         | 21 × 26½          | 19⅝ × 42          | 26½ × 42          | 31½ × 39¾         | ....              | 6¾ × 8¼              | 17¼ × 28         | 28 × 34½          |
| 5 × 6½               | 13¾ × 21         | 21 × 27½          | 20⅝ × 42          | 27½ × 42          | 31½ × 41¼         | ....              | 6¾ × 8½              | 17¾ × 28         | 28 × 35½          |
| 5 × 6¾               | 14¼ × 21         | 21 × 28½          | 21⅝ × 42          | 28½ × 42          | 31½ × 42¾         | ....              | 6¾ × 8¾              | 18¼ × 28         | 28 × 36½          |
| 5 × 7                | 14¾ × 21         | 21 × 29½          | 22⅝ × 42          | 29½ × 42          | 31½ × 44¼         | ....              | 6¾ × 9               | 18¾ × 28         | 28 × 37½          |
| 5 × 7¼               | 15¼ × 21         | 21 × 30½          | 22⅝ × 42          | 30½ × 42          | 31½ × 45¾         | ....              | 6¾ × 9¼              | 19¼ × 28         | 28 × 38½          |
| 5 × 7½               | 15¾ × 21         | 21 × 31½          | 23⅝ × 42          | 31½ × 42          | 31½ × 47¼         | ....              | 6¾ × 9½              | 19¾ × 28         | 28 × 39½          |
| 5¼ × 6½              | 13¾ × 22         | 22 × 27½          | 20⅝ × 44          | 27½ × 44          | 33 × 41¼          | ....              | 6¾ × 9¾              | 20¼ × 28         | 28 × 40½          |
| 5¼ × 6¾              | 14¼ × 22         | 22 × 28½          | 21⅝ × 44          | 28½ × 44          | 33 × 42¾          | ....              | 6¾ × 10              | 20¾ × 28         | 28 × 41½          |
| 5¼ × 7               | 14¾ × 22         | 22 × 29½          | 22⅝ × 44          | 29½ × 44          | 33 × 44¼          | ....              | 6¾ × 10¼             | 21¼ × 28         | 28 × 42½          |
| 5¼ × 7¼              | 15¼ × 22         | 22 × 30½          | 22⅝ × 44          | 30½ × 44          | 33 × 45¾          | ....              | 6¾ × 10½             | 21¾ × 28         | 28 × 43½          |
| 5¼ × 7½              | 15¾ × 22         | 22 × 31½          | 23⅝ × 44          | 31½ × 44          | ....              | ....              | 7 × 8                | 16¾ × 29         | 29 × 33½          |
| 5¼ × 7¾              | 16¼ × 22         | 22 × 32½          | 24⅝ × 44          | 32½ × 44          | ....              | ....              | 7 × 8¼               | 17¼ × 29         | 29 × 34½          |
| 5¼ × 8               | 16¾ × 22         | 22 × 33½          | 25⅝ × 44          | 33½ × 44          | ....              | ....              | 7 × 8½               | 17¾ × 29         | 29 × 35½          |
| 5½ × 6½              | 13¾ × 23         | 23 × 27½          | 20⅝ × 46          | 27½ × 46          | ....              | ....              | 7 × 8¾               | 18¼ × 29         | 29 × 36½          |
| 5½ × 6¾              | 14¼ × 23         | 23 × 28½          | 21⅝ × 46          | 28½ × 46          | ....              | ....              | 7 × 9                | 18¾ × 29         | 29 × 37½          |
| 5½ × 7               | 14¾ × 23         | 23 × 29½          | 22⅝ × 46          | 29½ × 46          | ....              | ....              | 7 × 9¼               | 19¼ × 29         | 29 × 38½          |
| 5½ × 7¼              | 15¼ × 23         | 23 × 30½          | 22⅝ × 46          | 30½ × 46          | ....              | ....              | 7 × 9½               | 19¾ × 29         | 29 × 39½          |
| 5½ × 7½              | 15¾ × 23         | 23 × 31½          | 23⅝ × 46          | 31½ × 46          | ....              | ....              | 7 × 9¾               | 20¼ × 29         | 29 × 40½          |
| 5½ × 7¾              | 16¼ × 23         | 23 × 32½          | 24⅝ × 46          | 32½ × 46          | ....              | ....              | 7 × 10               | 20¾ × 29         | 29 × 41½          |
| 5½ × 8               | 16¾ × 23         | 23 × 33½          | 25⅝ × 46          | 33½ × 46          | ....              | ....              | 7 × 10¼              | 21¼ × 29         | 29 × 42½          |
| 7¼ × 9               | 18¾ × 30         | 30 × 37½          | 8 × 9             | 18¾ × 33          | 33 × 37½          | 9 × 10            | 20¾ × 37             | 10 × 12          | 24¾ × 41          |
| 7¼ × 9¼              | 19¼ × 30         | 30 × 38½          | 8 × 9½            | 19¼ × 33          | 33 × 39½          | 9 × 10½           | 21¼ × 37             | 10 × 13          | 26¼ × 41          |
| 7¼ × 9½              | 19¾ × 30         | 30 × 39½          | 8 × 10            | 20¼ × 33          | 33 × 41½          | 9 × 11            | 22¼ × 37             | 10 × 14          | 28¼ × 41          |
| 7¼ × 9¾              | 20¼ × 30         | 30 × 40½          | 8 × 10½           | 21¼ × 33          | 33 × 43½          | 9 × 11½           | 23¼ × 37             | 11 × 13          | 26¼ × 45          |
| 7¼ × 10              | 20¾ × 30         | 30 × 41½          | 8 × 11            | 22¼ × 33          | 33 × 45½          | 9 × 12            | 24¼ × 37             | 11 × 14          | 28¼ × 45          |
| 7¼ × 10¼             | 21¼ × 30         | 30 × 42½          | 8 × 11½           | 23¼ × 33          | ....              | 9 × 12½           | 25¼ × 37             | 11 × 15          | 30¼ × 45          |
| 7¼ × 10½             | 21¾ × 30         | 30 × 43½          | 8 × 12            | 24¼ × 33          | ....              | 9 × 13            | 26¼ × 37             | 11 × 15½         | 32 × 45           |
| 7¼ × 10¾             | 22¼ × 30         | 30 × 44½          | 8 × 12½           | 25¼ × 33          | ....              | 9 × 13½           | 27¼ × 37             | 11¼ × 16½        | 33 × 46           |
| 7¼ × 11              | 22¾ × 30         | 30 × 45½          | 8 × 13            | 26¼ × 33          | ....              | 9 × 14            | 28¼ × 37             | ....             | ....              |

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|---------------|------------------|-------------------|---------------|------------------|-------------------|---------------|------------------|---------------|------------------|
| 7¼ × 9        | 18¾ × 30         | 30 × 37½          | 8 × 9         | 18¾ × 33         | 33 × 37½          | 9 × 10        | 20¾ × 37         | 10 × 12       | 24¾ × 41         |
| 7¼ × 9¼       | 19¼ × 30         | 30 × 38½          | 8 × 9½        | 19¼ × 33         | 33 × 39½          | 9 × 10½       | 21¼ × 37         | 10 × 13       | 26¼ × 41         |
| 7¼ × 9½       | 19¾ × 30         | 30 × 39½          | 8 × 10        | 20¼ × 33         | 33 × 41½          | 9 × 11        | 22¼ × 37         | 10 × 14       | 28¼ × 41         |
| 7¼ × 9¾       | 20¼ × 30         | 30 × 40½          | 8 × 10½       | 21¼ × 33         | 33 × 43½          | 9 × 11½       | 23¼ × 37         | 11 × 13       | 26¼ × 45         |
| 7¼ × 10       | 20¾ × 30         | 30 × 41½          | 8 × 11        | 22¼ × 33         | 33 × 45½          | 9 × 12        | 24¼ × 37         | 11 × 14       | 28¼ × 45         |
| 7¼ × 10¼      | 21¼ × 30         | 30 × 42½          | 8 × 11½       | 23¼ × 33         | ....              | 9 × 12½       | 25¼ × 37         | 11 × 15       | 30¼ × 45         |
| 7¼ × 10½      | 21¾ × 30         | 30 × 43½          | 8 × 12        | 24¼ × 33         | ....              | 9 × 13        | 26¼ × 37         | 11 × 15½      | 32 × 45          |
| 7¼ × 10¾      | 22¼ × 30         | 30 × 44½          | 8 × 12½       | 25¼ × 33         | ....              | 9 × 13½       | 27¼ × 37         | 11¼ × 16½     | 33 × 46          |
| 7¼ × 11       | 22¾ × 30         | 30 × 45½          | 8 × 13        | 26¼ × 33         | ....              | 9 × 14        | 28¼ × 37         | ....          | ....             |



## Equivalent Weights of Paper.

| SIZE.   | sq. Inches | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
|---------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 14 × 17 | 238        | 7    | 7    | 8    | 9    | 10   | 10   | 12   | 12   | 13   | 13   | 15   | 16   | 17   | 18   | 20   | 21   |
| 17 × 22 | 374        | 10   | 11   | 12   | 14   | 16   | 16   | 18   | 19   | 20   | 21   | 23   | 25   | 27   | 29   | 31   | 33   |
| 18 × 23 | 414        | 11   | 13   | 14   | 16   | 17   | 18   | 20   | 22   | 22   | 23   | 25   | 27   | 30   | 32   | 34   | 36   |
| 19 × 24 | 456        | 13   | 14   | 15   | 18   | 19   | 20   | 22   | 23   | 24   | 25   | 28   | 30   | 33   | 35   | 37   | 40   |
| 20 × 25 | 500        | 14   | 15   | 17   | 19   | 21   | 22   | 24   | 25   | 26   | 28   | 31   | 33   | 36   | 39   | 41   | 44   |
| 22 × 28 | 616        | 17   | 19   | 19   | 24   | 26   | 27   | 30   | 31   | 32   | 34   | 35   | 38   | 40   | 44   | 47   | 51   |
| 22 × 29 | 638        | 18   | 19   | 21   | 25   | 27   | 28   | 31   | 32   | 34   | 35   | 39   | 42   | 46   | 49   | 52   | 56   |
| 23 × 30 | 690        | 19   | 21   | 23   | 27   | 29   | 30   | 33   | 35   | 36   | 38   | 42   | 46   | 49   | 53   | 57   | 61   |
| 23 × 32 | 736        | 20   | 22   | 25   | 28   | 31   | 32   | 36   | 37   | 39   | 40   | 45   | 48   | 53   | 57   | 60   | 65   |
| 23 × 33 | 759        | 21   | 23   | 25   | 29   | 32   | 33   | 37   | 38   | 40   | 42   | 47   | 50   | 54   | 58   | 63   | 67   |
| 23 × 36 | 828        | 23   | 25   | 28   | 32   | 35   | 36   | 40   | 41   | 44   | 46   | 51   | 54   | 59   | 64   | 68   | 73   |
| 23 × 37 | 851        | 23   | 26   | 28   | 33   | 35   | 37   | 41   | 43   | 45   | 48   | 52   | 56   | 61   | 66   | 70   | 75   |
| 23 × 38 | 874        | 24   | 27   | 29   | 34   | 36   | 38   | 42   | 44   | 46   | 48   | 54   | 58   | 62   | 67   | 72   | 77   |
| 23 × 39 | 897        | 25   | 27   | 30   | 35   | 37   | 39   | 43   | 45   | 47   | 49   | 55   | 59   | 64   | 69   | 74   | 79   |
| 23 × 41 | 943        | 26   | 29   | 31   | 36   | 39   | 41   | 46   | 47   | 50   | 52   | 58   | 62   | 67   | 73   | 77   | 83   |
| 23 × 42 | 966        | 27   | 29   | 32   | 37   | 40   | 42   | 47   | 48   | 51   | 53   | 59   | 64   | 69   | 74   | 79   | 85   |
| 23 × 43 | 989        | 27   | 30   | 33   | 38   | 41   | 43   | 48   | 49   | 52   | 54   | 61   | 65   | 71   | 76   | 81   | 87   |
| 24 × 30 | 720        | 20   | 22   | 24   | 28   | 30   | 32   | 35   | 36   | 38   | 40   | 46   | 47   | 51   | 55   | 59   | 63   |
| 24 × 32 | 768        | 21   | 23   | 26   | 30   | 32   | 34   | 37   | 38   | 40   | 42   | 47   | 50   | 55   | 59   | 63   | 67   |
| 24 × 33 | 792        | 22   | 24   | 26   | 30   | 33   | 35   | 38   | 40   | 42   | 44   | 49   | 52   | 57   | 61   | 65   | 69   |
| 24 × 35 | 840        | 23   | 25   | 28   | 32   | 35   | 37   | 41   | 42   | 44   | 46   | 52   | 55   | 60   | 65   | 69   | 74   |
| 24 × 36 | 864        | 24   | 26   | 29   | 33   | 36   | 38   | 42   | 43   | 45   | 48   | 53   | 57   | 62   | 66   | 71   | 76   |
| 24 × 37 | 888        | 24   | 27   | 30   | 34   | 37   | 39   | 43   | 44   | 47   | 49   | 55   | 58   | 63   | 68   | 73   | 78   |
| 24 × 38 | 912        | 25   | 28   | 30   | 35   | 38   | 40   | 44   | 45   | 48   | 50   | 56   | 60   | 65   | 70   | 75   | 80   |
| 24 × 39 | 936        | 26   | 28   | 31   | 36   | 39   | 41   | 45   | 47   | 49   | 51   | 57   | 62   | 67   | 72   | 77   | 82   |
| 24 × 40 | 960        | 26   | 29   | 32   | 37   | 40   | 42   | 46   | 48   | 51   | 53   | 59   | 63   | 69   | 74   | 79   | 84   |
| 25 × 37 | 925        | 26   | 28   | 31   | 36   | 39   | 40   | 45   | 46   | 49   | 51   | 57   | 61   | 66   | 71   | 76   | 81   |
| 25 × 38 | 950        | 25   | 29   | 32   | 37   | 40   | 42   | 46   | 47   | 50   | 52   | 58   | 63   | 68   | 73   | 78   | 83   |
| 25 × 39 | 975        | 27   | 30   | 32   | 38   | 41   | 43   | 47   | 49   | 51   | 54   | 60   | 64   | 70   | 75   | 80   | 86   |
| 25 × 40 | 1000       | 27   | 30   | 33   | 38   | 42   | 44   | 48   | 50   | 53   | 55   | 60   | 66   | 72   | 77   | 82   | 88   |
| 25 × 41 | 1025       | 28   | 31   | 34   | 39   | 43   | 45   | 50   | 51   | 54   | 56   | 63   | 68   | 73   | 79   | 84   | 90   |
| 25 × 42 | 1050       | 29   | 32   | 35   | 40   | 44   | 46   | 51   | 52   | 55   | 58   | 64   | 69   | 75   | 81   | 86   | 92   |
| 25 × 43 | 1075       | 30   | 33   | 36   | 41   | 45   | 47   | 52   | 54   | 57   | 59   | 66   | 71   | 77   | 83   | 88   | 94   |
| 25 × 44 | 1100       | 30   | 33   | 37   | 42   | 46   | 48   | 53   | 55   | 58   | 60   | 63   | 72   | 79   | 85   | 90   | 97   |
| 26 × 38 | 988        | 27   | 30   | 33   | 38   | 41   | 43   | 48   | 49   | 52   | 54   | 63   | 65   | 71   | 76   | 81   | 87   |
| 26 × 39 | 1014       | 28   | 31   | 34   | 39   | 42   | 44   | 49   | 51   | 53   | 56   | 62   | 67   | 72   | 78   | 83   | 89   |
| 26 × 40 | 1040       | 29   | 32   | 35   | 40   | 43   | 46   | 50   | 52   | 55   | 57   | 64   | 68   | 74   | 80   | 85   | 91   |
| 26 × 41 | 1066       | 29   | 32   | 36   | 41   | 44   | 47   | 52   | 53   | 56   | 59   | 65   | 70   | 76   | 82   | 87   | 93   |
| 26 × 43 | 1118       | 30   | 34   | 37   | 43   | 46   | 49   | 54   | 56   | 59   | 61   | 69   | 74   | 80   | 86   | 92   | 98   |
| 27 × 39 | 1053       | 29   | 32   | 35   | 40   | 44   | 46   | 51   | 53   | 55   | 58   | 65   | 69   | 75   | 81   | 86   | 92   |
| 27 × 40 | 1080       | 30   | 33   | 36   | 42   | 45   | 47   | 52   | 54   | 57   | 59   | 66   | 71   | 77   | 83   | 89   | 95   |
| 27 × 41 | 1107       | 30   | 34   | 37   | 43   | 46   | 48   | 54   | 55   | 58   | 61   | 68   | 73   | 79   | 85   | 91   | 97   |
| 27 × 42 | 1134       | 31   | 34   | 38   | 44   | 47   | 50   | 55   | 57   | 60   | 62   | 70   | 75   | 81   | 87   | 93   | 99   |
| 27 × 44 | 1188       | 33   | 36   | 40   | 46   | 49   | 52   | 57   | 59   | 63   | 65   | 73   | 78   | 85   | 91   | 97   | 104  |
| 28 × 38 | 1064       | 29   | 32   | 35   | 41   | 44   | 47   | 51   | 53   | 56   | 59   | 65   | 70   | 76   | 82   | 87   | 93   |
| 28 × 39 | 1092       | 30   | 33   | 36   | 42   | 45   | 48   | 52   | 55   | 58   | 60   | 67   | 72   | 78   | 84   | 90   | 96   |
| 28 × 40 | 1120       | 31   | 34   | 37   | 43   | 47   | 49   | 54   | 56   | 59   | 62   | 69   | 74   | 80   | 86   | 92   | 98   |
| 28 × 41 | 1148       | 31   | 35   | 38   | 44   | 48   | 50   | 55   | 57   | 60   | 63   | 70   | 76   | 82   | 88   | 94   | 101  |
| 28 × 42 | 1176       | 32   | 36   | 39   | 45   | 49   | 52   | 57   | 59   | 62   | 65   | 72   | 77   | 84   | 90   | 96   | 103  |
| 28 × 43 | 1204       | 33   | 37   | 40   | 46   | 50   | 53   | 58   | 60   | 63   | 66   | 74   | 79   | 86   | 93   | 99   | 106  |
| 28 × 44 | 1232       | 34   | 37   | 41   | 47   | 51   | 54   | 60   | 62   | 65   | 68   | 76   | 81   | 88   | 95   | 101  | 108  |
| 29 × 40 | 1160       | 32   | 35   | 39   | 45   | 48   | 51   | 56   | 58   | 61   | 64   | 71   | 76   | 83   | 89   | 95   | 102  |
| 29 × 41 | 1189       | 33   | 36   | 40   | 46   | 50   | 52   | 57   | 60   | 63   | 65   | 73   | 78   | 85   | 91   | 98   | 104  |
| 29 × 42 | 1218       | 33   | 37   | 41   | 47   | 51   | 53   | 59   | 61   | 64   | 67   | 75   | 80   | 87   | 94   | 100  | 107  |
| 29 × 43 | 1247       | 34   | 38   | 42   | 48   | 52   | 55   | 60   | 62   | 66   | 69   | 78   | 82   | 89   | 96   | 102  | 109  |
| 29 × 44 | 1276       | 35   | 39   | 43   | 49   | 53   | 56   | 62   | 64   | 67   | 70   | 78   | 84   | 91   | 98   | 105  | 112  |
| 30 × 40 | 1200       | 33   | 36   | 40   | 46   | 50   | 53   | 58   | 60   | 63   | 66   | 74   | 79   | 86   | 93   | 99   | 105  |
| 30 × 41 | 1230       | 34   | 37   | 41   | 47   | 51   | 54   | 59   | 61   | 65   | 68   | 76   | 81   | 88   | 95   | 101  | 108  |
| 30 × 42 | 1260       | 35   | 38   | 42   | 48   | 52   | 55   | 61   | 63   | 66   | 69   | 77   | 83   | 90   | 97   | 103  | 111  |
| 30 × 43 | 1290       | 35   | 39   | 43   | 50   | 54   | 57   | 62   | 64   | 68   | 71   | 79   | 85   | 92   | 99   | 106  | 113  |
| 30 × 44 | 1320       | 36   | 40   | 44   | 51   | 55   | 58   | 64   | 66   | 70   | 73   | 81   | 87   | 95   | 102  | 108  | 116  |
| 31 × 40 | 1240       | 34   | 38   | 41   | 48   | 52   | 54   | 60   | 62   | 65   | 68   | 76   | 82   | 89   | 95   | 102  | 109  |
| 31 × 42 | 1302       | 36   | 39   | 43   | 50   | 54   | 57   | 63   | 65   | 69   | 72   | 80   | 86   | 93   | 100  | 107  | 114  |
| 31 × 43 | 1333       | 37   | 40   | 44   | 51   | 56   | 58   | 64   | 67   | 70   | 73   | 82   | 88   | 95   | 103  | 109  | 117  |
| 31 × 44 | 1364       | 37   | 41   | 45   | 52   | 57   | 60   | 66   | 68   | 72   | 75   | 84   | 90   | 97   | 105  | 112  | 120  |
| 31 × 45 | 1395       | 38   | 42   | 46   | 54   | 58   | 61   | 67   | 70   | 73   | 77   | 86   | 92   | 100  | 107  | 114  | 122  |
| 31 × 46 | 1426       | 39   | 43   | 48   | 55   | 59   | 63   | 69   | 71   | 75   | 78   | 87   | 94   | 102  | 110  | 117  | 125  |
| 32 × 45 | 1440       | 39   | 44   | 48   | 55   | 60   | 63   | 70   | 72   | 76   | 79   | 88   | 95   | 103  | 111  | 118  | 127  |
| 32 × 46 | 1472       | 40   | 45   | 49   | 57   | 61   | 65   | 71   | 74   | 77   | 81   | 90   | 97   | 105  | 113  | 121  | 129  |
| 33 × 46 | 1518       | 42   | 46   | 51   | 58   | 63   | 67   | 73   | 76   | 80   | 83   | 93   | 100  | 108  | 117  | 124  | 133  |
| 34 × 45 | 1530       | 42   | 46   | 51   | 59   | 64   | 67   | 74   | 77   | 81   | 84   | 94   | 101  | 109  | 118  | 125  | 134  |
| 34 × 46 | 1564       | 43   | 47   | 52   | 60   | 65   | 69   | 76   | 78   | 82   | 86   | 96   | 103  | 112  | 120  | 128  | 137  |
| 34 × 47 | 1598       | 44   | 48   | 53   | 61   | 67   | 70   | 77   | 80   | 84   | 88   | 98   | 105  | 114  | 123  | 130  | 140  |
| 34 × 48 | 1632       | 45   | 49   | 54   | 63   | 68   | 72   | 79   | 82   | 86   | 90   | 100  | 107  | 117  | 126  | 133  | 143  |
| 35 × 48 | 1680       | 46   | 51   | 56   | 65   | 70   | 72   | 81   | 84   | 85   | 92   | 103  | 111  | 120  | 129  | 137  | 147  |
| 35 × 49 | 1715       | 47   | 52   | 57   | 66   | 71   | 75   | 83   | 86   | 90   | 94   | 105  | 113  | 123  | 132  | 140  | 150  |
| 35 × 50 | 1750       | 48   | 53   | 58   | 67   | 73   | 77   | 85   | 87   | 92   | 96   | 107  | 115  | 125  | 135  | 143  | 153  |
| 36 × 49 | 1764       | 48   | 53   | 59   | 68   | 74   | 77   | 85   | 88   | 93   | 97   | 108  | 116  | 126  | 136  | 144  | 154  |
| 36 × 50 | 1800       | 50   | 55   | 60   | 69   | 75   | 79   | 87   | 90   | 95   | 99   | 110  | 118  | 129  | 139  | 147  | 158  |
| 36 × 51 | 1836       | 51   | 56   | 61   | 71   | 76   | 81   | 89   | 92   | 97   | 101  | 113  | 120  | 131  | 141  | 150  | 161  |
| 36 × 52 | 1872       | 51   | 57   | 62   | 72   | 78   | 82   | 90   | 94   | 99   | 103  | 115  | 124  | 134  | 144  | 153  | 164  |

Wanted, for example, the weight of 23 × 41 paper to equal 33 × 46 = 100. Look along the line commencing 33 × 46 to the column in which 100 stands; above, in that column opposite 23 × 41 is 62, which is the required weight.

# TABLE OF SIGNATURES.

| No. of Sig. | 8 PAGES TO FORM. |       | 12 PAGES TO FORM. |       | 16 PAGES TO FORM. |       | 24 PAGES TO FORM. |       | 32 PAGES TO FORM. |       | 36 PAGES TO FORM. |       | No. of Sig. |
|-------------|------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------|
|             | First.           | Last. | First.            | Last. | First.            | Last. | First.            | Last. | First.            | Last. | First.            | Last. |             |
| 1           | 1                | 8     | 1                 | 12    | 1                 | 16    | 1                 | 24    | 1                 | 32    | 1                 | 36    | 1           |
| 2           | 9                | 16    | 13                | 24    | 17                | 32    | 25                | 48    | 33                | 64    | 37                | 72    | 2           |
| 3           | 17               | 24    | 25                | 36    | 33                | 48    | 49                | 72    | 65                | 96    | 73                | 108   | 3           |
| 4           | 25               | 32    | 37                | 48    | 49                | 64    | 73                | 96    | 97                | 128   | 109               | 144   | 4           |
| 5           | 33               | 40    | 49                | 60    | 65                | 80    | 97                | 120   | 129               | 160   | 145               | 180   | 5           |
| 6           | 41               | 48    | 61                | 72    | 81                | 96    | 121               | 144   | 161               | 192   | 181               | 216   | 6           |
| 7           | 49               | 56    | 73                | 84    | 97                | 112   | 145               | 168   | 193               | 224   | 217               | 252   | 7           |
| 8           | 57               | 64    | 85                | 96    | 113               | 128   | 169               | 192   | 225               | 256   | 253               | 288   | 8           |
| 9           | 65               | 72    | 97                | 108   | 129               | 144   | 193               | 216   | 257               | 288   | 289               | 324   | 9           |
| 10          | 73               | 80    | 109               | 120   | 145               | 160   | 217               | 240   | 289               | 320   | 325               | 360   | 10          |
| 11          | 81               | 88    | 121               | 132   | 161               | 176   | 241               | 264   | 321               | 352   | 361               | 396   | 11          |
| 12          | 89               | 96    | 133               | 144   | 177               | 192   | 265               | 288   | 353               | 384   | 397               | 432   | 12          |
| 13          | 97               | 104   | 145               | 156   | 193               | 208   | 289               | 312   | 385               | 416   | 433               | 468   | 13          |
| 14          | 105              | 112   | 157               | 168   | 209               | 224   | 313               | 336   | 417               | 448   | 469               | 504   | 14          |
| 15          | 113              | 120   | 169               | 180   | 225               | 240   | 337               | 360   | 449               | 480   | 505               | 540   | 15          |
| 16          | 121              | 128   | 181               | 192   | 241               | 256   | 361               | 384   | 481               | 512   | 541               | 576   | 16          |
| 17          | 129              | 136   | 193               | 204   | 257               | 272   | 385               | 408   | 513               | 544   | 577               | 612   | 17          |
| 18          | 137              | 144   | 205               | 216   | 273               | 288   | 409               | 432   | 545               | 576   | 613               | 648   | 18          |
| 19          | 145              | 152   | 217               | 228   | 289               | 304   | 433               | 456   | 577               | 608   | 649               | 684   | 19          |
| 20          | 153              | 160   | 229               | 240   | 305               | 320   | 457               | 480   | 609               | 640   | 685               | 720   | 20          |
| 21          | 161              | 168   | 241               | 252   | 321               | 336   | 481               | 504   | 641               | 672   | 721               | 756   | 21          |
| 22          | 169              | 176   | 253               | 264   | 337               | 352   | 505               | 528   | 673               | 704   | 757               | 792   | 22          |
| 23          | 177              | 184   | 265               | 276   | 353               | 368   | 529               | 552   | 705               | 736   | 793               | 828   | 23          |
| 24          | 185              | 192   | 277               | 288   | 369               | 384   | 553               | 576   | 737               | 768   | 829               | 864   | 24          |
| 25          | 193              | 200   | 289               | 300   | 385               | 400   | 577               | 600   | 769               | 800   | 865               | 900   | 25          |
| 26          | 201              | 208   | 301               | 312   | 401               | 416   | 601               | 624   | 801               | 832   | 901               | 936   | 26          |
| 27          | 209              | 216   | 313               | 324   | 417               | 432   | 625               | 648   | 833               | 864   | 937               | 972   | 27          |
| 28          | 217              | 224   | 325               | 336   | 433               | 448   | 649               | 672   | 865               | 896   | 973               | 1008  | 28          |
| 29          | 225              | 232   | 337               | 348   | 449               | 464   | 673               | 696   | 897               | 928   | 1009              | 1044  | 29          |
| 30          | 233              | 240   | 349               | 360   | 465               | 480   | 697               | 720   | 929               | 960   | 1045              | 1080  | 30          |
| 31          | 241              | 248   | 361               | 372   | 481               | 496   | 721               | 744   | 961               | 992   | 1081              | 1116  | 31          |
| 32          | 249              | 256   | 373               | 384   | 497               | 512   | 745               | 768   | 993               | 1024  | 1117              | 1152  | 32          |
| 33          | 257              | 264   | 385               | 396   | 513               | 528   | 769               | 792   | 1025              | 1056  | 1153              | 1188  | 33          |
| 34          | 265              | 272   | 397               | 408   | 529               | 544   | 793               | 816   | 1057              | 1088  | 1189              | 1224  | 34          |
| 35          | 273              | 280   | 409               | 420   | 545               | 560   | 817               | 840   | 1089              | 1120  | 1225              | 1260  | 35          |
| 36          | 281              | 288   | 421               | 432   | 561               | 576   | 841               | 864   | 1121              | 1152  | 1261              | 1296  | 36          |
| 37          | 289              | 296   | 433               | 444   | 577               | 592   | 865               | 888   | 1153              | 1184  | 1297              | 1332  | 37          |
| 38          | 297              | 304   | 445               | 456   | 593               | 608   | 889               | 912   | 1185              | 1216  | 1333              | 1368  | 38          |
| 39          | 305              | 312   | 457               | 468   | 609               | 624   | 913               | 936   | 1217              | 1248  | 1369              | 1404  | 39          |
| 40          | 313              | 320   | 469               | 480   | 625               | 640   | 937               | 960   | 1249              | 1280  | 1405              | 1440  | 40          |
| 41          | 321              | 328   | 481               | 492   | 641               | 656   | 961               | 984   | 1281              | 1312  | 1441              | 1476  | 41          |
| 42          | 329              | 336   | 493               | 504   | 657               | 672   | 985               | 1008  | 1313              | 1344  | 1477              | 1512  | 42          |
| 43          | 337              | 344   | 505               | 516   | 673               | 688   | 1009              | 1032  | 1345              | 1376  | 1513              | 1548  | 43          |
| 44          | 345              | 352   | 517               | 528   | 689               | 704   | 1033              | 1056  | 1377              | 1408  | 1549              | 1584  | 44          |
| 45          | 353              | 360   | 529               | 540   | 705               | 720   | 1057              | 1080  | 1409              | 1440  | 1585              | 1620  | 45          |
| 46          | 361              | 368   | 541               | 552   | 721               | 736   | 1081              | 1104  | 1441              | 1472  | 1621              | 1656  | 46          |
| 47          | 369              | 376   | 553               | 564   | 737               | 752   | 1105              | 1128  | 1473              | 1504  | 1657              | 1692  | 47          |
| 48          | 377              | 384   | 565               | 576   | 753               | 768   | 1129              | 1152  | 1505              | 1536  | 1693              | 1728  | 48          |
| 49          | 385              | 392   | 577               | 588   | 769               | 784   | 1153              | 1176  | 1537              | 1568  | 1729              | 1764  | 49          |
| 50          | 393              | 400   | 589               | 600   | 785               | 800   | 1177              | 1200  | 1569              | 1600  | 1765              | 1800  | 50          |
| 51          | 401              | 408   | 601               | 612   | 801               | 816   | 1201              | 1224  | 1601              | 1632  | 1801              | 1836  | 51          |
| 52          | 409              | 416   | 613               | 624   | 817               | 832   | 1225              | 1248  | 1633              | 1664  | 1837              | 1872  | 52          |
| 53          | 417              | 424   | 625               | 636   | 833               | 848   | 1249              | 1272  | 1665              | 1696  | 1873              | 1908  | 53          |
| 54          | 425              | 432   | 637               | 644   | 849               | 864   | 1273              | 1296  | 1697              | 1728  | 1909              | 1944  | 54          |
| 55          | 433              | 440   | 645               | 660   | 865               | 880   | 1297              | 1320  | 1729              | 1760  | 1945              | 1980  | 55          |
| 56          | 441              | 448   | 661               | 672   | 881               | 896   | 1321              | 1344  | 1761              | 1792  | 1981              | 2016  | 56          |
| 57          | 449              | 456   | 673               | 684   | 897               | 912   | 1345              | 1368  | 1793              | 1824  | 2017              | 2052  | 57          |
| 58          | 457              | 464   | 685               | 696   | 913               | 928   | 1369              | 1392  | 1825              | 1856  | 2053              | 2088  | 58          |
| 59          | 465              | 472   | 697               | 708   | 929               | 944   | 1393              | 1414  | 1857              | 1888  | 2089              | 2124  | 59          |
| 60          | 473              | 480   | 709               | 720   | 945               | 960   | 1415              | 1440  | 1889              | 1920  | 2125              | 2160  | 60          |



# QUANTITIES OF PAPER REQUIRED, 480 SHEETS TO REAM.

| Sig. | 250     | 500     | 750     | 1000    | 1500    | 2000    | 2500    | 3000    | 5000    | 10,000  | Sig. |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
|      | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. | Re. Qu. |      |
| 1    | 06      | 12      | 17      | 1 02    | 1 13    | 2 04    | 2 15    | 3 06    | 5 10    | 10 15   | 1    |
| 2    | 12      | 1 03    | 1 13    | 2 04    | 3 06    | 4 08    | 5 10    | 6 12    | 11      | 21 10   | 2    |
| 3    | 18      | 1 15    | 2 10    | 3 06    | 4 19    | 6 12    | 8 05    | 9 18    | 16 50   | 32 05   | 3    |
| 4    | 1 04    | 2 06    | 3 06    | 4 08    | 6 12    | 8 16    | 11      | 13 04   | 22      | 43      | 4    |
| 5    | 1 10    | 2 18    | 4 03    | 5 10    | 8 05    | 11      | 13 15   | 16 10   | 27 10   | 53 15   | 5    |
| 6    | 1 16    | 3 09    | 4 19    | 6 12    | 9 18    | 13 04   | 16 10   | 19 16   | 33      | 64 10   | 6    |
| 7    | 2 02    | 4 01    | 5 16    | 7 14    | 11 11   | 15 08   | 19 05   | 23 02   | 38 10   | 75 05   | 7    |
| 8    | 2 08    | 4 12    | 6 12    | 8 16    | 13 04   | 17 12   | 22      | 26 08   | 44      | 86      | 8    |
| 9    | 2 14    | 5 04    | 7 09    | 9 18    | 14 17   | 19 16   | 24 15   | 29 14   | 49 10   | 96 15   | 9    |
| 10   | 3       | 5 15    | 8 05    | 11      | 16 10   | 22      | 27 10   | 33      | 55      | 107 10  | 10   |
| 11   | 3 06    | 6 07    | 9 02    | 12 02   | 18 03   | 24 04   | 30 05   | 36 06   | 60 10   | 118 05  | 11   |
| 12   | 3 12    | 6 18    | 9 18    | 13 04   | 19 16   | 26 08   | 33      | 39 12   | 66      | 129     | 12   |
| 13   | 3 18    | 7 10    | 10 15   | 14 06   | 21 09   | 28 12   | 35 15   | 42 18   | 71 10   | 139 15  | 13   |
| 14   | 4 04    | 8 01    | 11 11   | 15 08   | 23 02   | 30 16   | 38 10   | 46 04   | 77      | 150 10  | 14   |
| 15   | 4 10    | 8 13    | 12 08   | 16 10   | 24 15   | 33      | 41 05   | 49 10   | 82 10   | 161 05  | 15   |
| 16   | 4 16    | 9 04    | 13 04   | 17 12   | 26 08   | 35 04   | 44      | 52 16   | 88      | 172     | 16   |
| 17   | 5 02    | 9 16    | 14 01   | 18 14   | 28 01   | 37 08   | 46 15   | 56 02   | 93 10   | 182 15  | 17   |
| 18   | 5 08    | 10 07   | 14 17   | 19 16   | 29 14   | 39 12   | 49 10   | 59 08   | 99      | 193 10  | 18   |
| 19   | 5 14    | 10 19   | 15 14   | 20 18   | 31 07   | 41 16   | 52 05   | 62 14   | 104 10  | 204 05  | 19   |
| 20   | 6       | 11 10   | 16 10   | 22      | 33      | 44      | 55      | 66      | 110     | 215     | 20   |
| 21   | 6 06    | 12 02   | 17 07   | 23 02   | 34 13   | 46 04   | 57 15   | 69 06   | 115 10  | 225 15  | 21   |
| 22   | 6 12    | 12 13   | 18 03   | 24 04   | 36 06   | 48 08   | 60 10   | 72 12   | 121     | 236 10  | 22   |
| 23   | 6 18    | 13 05   | 19      | 25 06   | 37 19   | 50 12   | 63 05   | 75 18   | 126 10  | 247 05  | 23   |
| 24   | 7 04    | 13 16   | 19 16   | 26 08   | 39 12   | 52 16   | 66      | 79 04   | 132     | 258     | 24   |
| 25   | 7 10    | 14 08   | 20 13   | 27 10   | 41 05   | 55      | 68 15   | 82 10   | 137 10  | 268 15  | 25   |
| 26   | 7 16    | 14 19   | 21 09   | 28 12   | 42 18   | 57 04   | 71 10   | 85 16   | 143     | 279 10  | 26   |
| 27   | 8 02    | 15 11   | 22 06   | 29 14   | 44 11   | 59 08   | 74 05   | 89 02   | 148 10  | 290 05  | 27   |
| 28   | 8 08    | 16 02   | 23 02   | 30 16   | 46 04   | 61 12   | 77      | 92 08   | 154     | 301     | 28   |
| 29   | 8 14    | 16 14   | 23 19   | 31 18   | 47 17   | 63 14   | 79 15   | 95 14   | 159 10  | 311 15  | 29   |
| 30   | 9       | 17 05   | 24 15   | 33      | 49 10   | 66      | 82 10   | 99      | 165     | 322 10  | 30   |
| 31   | 9 06    | 17 17   | 25 12   | 34 02   | 51 03   | 68 04   | 85 05   | 102 06  | 170 10  | 333 05  | 31   |
| 32   | 9 12    | 18 08   | 26 08   | 35 04   | 52 16   | 70 08   | 88      | 105 12  | 176     | 344     | 32   |
| 33   | 9 18    | 19      | 27 05   | 36 06   | 54 09   | 72 12   | 90 15   | 108 18  | 181 10  | 354 15  | 33   |
| 34   | 10 04   | 19 11   | 28 01   | 37 08   | 56 02   | 74 16   | 93 10   | 112 04  | 187     | 365 10  | 34   |
| 35   | 10 10   | 20 03   | 28 18   | 38 10   | 57 15   | 77      | 96 05   | 115 10  | 192 10  | 376 05  | 35   |
| 36   | 10 16   | 20 14   | 29 14   | 39 12   | 59 08   | 79 04   | 99      | 118 16  | 198     | 387     | 36   |
| 37   | 11 02   | 21 06   | 30 11   | 40 14   | 61 01   | 81 08   | 101 15  | 122 02  | 203 10  | 397 15  | 37   |
| 38   | 11 08   | 21 17   | 31 07   | 41 16   | 62 14   | 83 12   | 104 10  | 125 08  | 209     | 408 10  | 38   |
| 39   | 11 04   | 22 09   | 32 04   | 42 18   | 64 07   | 85 16   | 107 05  | 128 14  | 214 10  | 419 05  | 39   |
| 40   | 12      | 23      | 33      | 44      | 66      | 88      | 110     | 132     | 220     | 430     | 40   |
| 41   | 12 06   | 23 12   | 33 17   | 45 02   | 67 13   | 90 04   | 112 15  | 135 06  | 225 10  | 440 15  | 41   |
| 42   | 12 12   | 24 03   | 34 13   | 46 04   | 69 06   | 92 08   | 115 10  | 138 12  | 231     | 451 10  | 42   |
| 43   | 12 18   | 24 15   | 35 10   | 47 06   | 70 19   | 94 12   | 118 05  | 141 18  | 236 10  | 462 05  | 43   |
| 44   | 13 04   | 25 06   | 36 06   | 48 08   | 72 12   | 96 16   | 121     | 145 04  | 242     | 473     | 44   |
| 45   | 13 10   | 25 18   | 37 03   | 49 10   | 74 05   | 99      | 123 15  | 148 10  | 247 10  | 483 15  | 45   |
| 46   | 13 16   | 26 09   | 37 19   | 50 12   | 75 18   | 101 04  | 126 10  | 151 16  | 253     | 494 10  | 46   |
| 47   | 14 02   | 27 01   | 38 16   | 51 14   | 77 11   | 103 08  | 129 05  | 155 02  | 258 10  | 505 05  | 47   |
| 48   | 14 08   | 27 12   | 39 12   | 52 16   | 79 04   | 105 12  | 132     | 158 08  | 264     | 516     | 48   |
| 49   | 14 14   | 28 04   | 40 09   | 53 18   | 80 17   | 107 16  | 134 15  | 161 14  | 269 10  | 526 15  | 49   |
| 50   | 15      | 28 15   | 41 05   | 55      | 82 10   | 110     | 137 10  | 165     | 275     | 537 10  | 50   |
| 51   | 15 06   | 29 07   | 42 02   | 56 02   | 84 03   | 112 04  | 140 05  | 168 06  | 280 10  | 548 05  | 51   |
| 52   | 15 12   | 29 18   | 42 18   | 57 04   | 85 16   | 114 08  | 143     | 171 12  | 286     | 559     | 52   |
| 53   | 15 18   | 30 10   | 43 15   | 58 06   | 87 09   | 116 12  | 145 15  | 174 18  | 291 10  | 569 15  | 53   |
| 54   | 16 04   | 31 01   | 44 11   | 59 08   | 89 02   | 118 16  | 148 10  | 178 04  | 297     | 580 10  | 54   |
| 55   | 16 10   | 31 13   | 45 08   | 60 10   | 90 15   | 121     | 151 05  | 181 10  | 302 10  | 591 05  | 55   |
| 56   | 16 16   | 32 04   | 46 04   | 61 12   | 92 08   | 123 04  | 154     | 184 16  | 308     | 602     | 56   |
| 57   | 17 02   | 32 16   | 47 01   | 62 14   | 94 01   | 125 08  | 156 15  | 188 02  | 313 10  | 612 15  | 57   |
| 58   | 17 08   | 33 07   | 47 17   | 63 16   | 95 14   | 127 12  | 159 10  | 191 08  | 319     | 623 10  | 58   |
| 59   | 17 14   | 33 19   | 48 14   | 64 18   | 97 07   | 129 16  | 162 05  | 194 14  | 324 10  | 634 05  | 59   |
| 60   | 18      | 34 10   | 49 10   | 66      | 99      | 132     | 165     | 198     | 330     | 645     | 60   |

## PICA PLAIN FACE No. 6 LEADED.

So I am content to tell my simple story, without trying to make things seem better than they were; dreading nothing, indeed, but falsity, which, in spite of one's best efforts, there is reason to dread. Falsehood is so easy, truth so difficult. The pencil is conscious of a delightful facility in drawing a griffin—the longer the claws, and the larger the wings, the better; but that marvellous facility, which we mistook for genius, is apt to forsake us when we want to draw a real unexaggerated lion. Examine your words well, and you will find that even when you have no motive to be false, it is a very hard thing to say the exact truth, even about your own immediate feelings—much harder than to say something fine about them which is *not* the exact truth.

It is for this rare, precious quality of truthfulness that I delight in many Dutch paintings, which lofty-minded people despise. I find a source of delicious sympathy in these faithful pictures of a monotonous homely existence, which has been the fate of so many more among my fellow-mortals than a life of pomp or of absolute indigence, of tragic suffering or of world-stirring actions. I turn without shrinking, from cloud-borne angels, from prophets, sibyls, and heroic warriors, to an old woman bending over her flower-pot, or eating her solitary dinner, while the noonday light, softened, perhaps, by a screen of leaves, falls on her mob-cap, and just touches the rim of her spinning-wheel, and her stone jug, and all those cheap, common things which are the precious necessaries of life to her; or I turn to that village wedding, kept between four brown walls, where an awkward bridegroom opens the



## PICA PLAIN FACE No. 6.

So I am content to tell my simple story, without trying to make things seem better than they were; dreading nothing, indeed, but falsity, which, in spite of one's best efforts, there is reason to dread. Falsehood is so easy, truth so difficult. The pencil is conscious of a delightful facility in drawing a griffin—the longer the claws, and the larger the wings, the better; but that marvellous facility, which we mistook for genius, is apt to forsake us when we want to draw a real unexaggerated lion. Examine your words well, and you will find that even when you have no motive to be false, it is a very hard thing to say the exact truth, even about your own immediate feelings—much harder than to say something fine about them which is *not* the exact truth.

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SMALL PICA PLAIN FACE No. 12 LEADED.

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# TYPE GAUGE.

Arranged from Fonts of Farmer, Little & Co.

| PICA. | SMALL PICA. | LONG PRIMER. | BOURGEOIS. | BREVIER. | MINION. | NONPAREIL. | AGATE. | PEARL. | PICA. |
|-------|-------------|--------------|------------|----------|---------|------------|--------|--------|-------|
| 1     | 1           | 1            | 1          | 1        | 1       | 1          | 1      | 1      | 1     |
| 2     | 2           | 2            | 2          | 2        | 2       | 2          | 2      | 2      | 2     |
| 3     | 3           | 3            | 3          | 3        | 3       | 3          | 3      | 3      | 3     |
| 4     | 4           | 4            | 4          | 4        | 4       | 4          | 4      | 4      | 4     |
| 5     | 5           | 5            | 5          | 5        | 5       | 5          | 5      | 5      | 5     |
| 6     | 6           | 6            | 6          | 6        | 6       | 6          | 6      | 6      | 6     |
| 7     | 7           | 7            | 7          | 7        | 7       | 7          | 7      | 7      | 7     |
| 8     | 8           | 8            | 8          | 8        | 8       | 8          | 8      | 8      | 8     |
| 9     | 9           | 9            | 9          | 9        | 9       | 9          | 9      | 9      | 9     |
| 10    | 10          | 10           | 10         | 10       | 10      | 10         | 10     | 10     | 10    |
| 11    | 11          | 11           | 11         | 11       | 11      | 11         | 11     | 11     | 11    |
| 12    | 12          | 12           | 12         | 12       | 12      | 12         | 12     | 12     | 12    |
| 13    | 13          | 13           | 13         | 13       | 13      | 13         | 13     | 13     | 13    |
| 14    | 14          | 14           | 14         | 14       | 14      | 14         | 14     | 14     | 14    |
| 15    | 15          | 15           | 15         | 15       | 15      | 15         | 15     | 15     | 15    |
| 16    | 16          | 16           | 16         | 16       | 16      | 16         | 16     | 16     | 16    |
| 17    | 17          | 17           | 17         | 17       | 17      | 17         | 17     | 17     | 17    |
| 18    | 18          | 18           | 18         | 18       | 18      | 18         | 18     | 18     | 18    |
| 19    | 19          | 19           | 19         | 19       | 19      | 19         | 19     | 19     | 19    |
| 20    | 20          | 20           | 20         | 20       | 20      | 20         | 20     | 20     | 20    |
| 21    | 21          | 21           | 21         | 21       | 21      | 21         | 21     | 21     | 21    |
| 22    | 22          | 22           | 22         | 22       | 22      | 22         | 22     | 22     | 22    |
| 23    | 23          | 23           | 23         | 23       | 23      | 23         | 23     | 23     | 23    |
| 24    | 24          | 24           | 24         | 24       | 24      | 24         | 24     | 24     | 24    |
| 25    | 25          | 25           | 25         | 25       | 25      | 25         | 25     | 25     | 25    |
| 26    | 26          | 26           | 26         | 26       | 26      | 26         | 26     | 26     | 26    |
| 27    | 27          | 27           | 27         | 27       | 27      | 27         | 27     | 27     | 27    |
| 28    | 28          | 28           | 28         | 28       | 28      | 28         | 28     | 28     | 28    |
| 29    | 29          | 29           | 29         | 29       | 29      | 29         | 29     | 29     | 29    |
| 30    | 30          | 30           | 30         | 30       | 30      | 30         | 30     | 30     | 30    |
| 31    | 31          | 31           | 31         | 31       | 31      | 31         | 31     | 31     | 31    |
| 32    | 32          | 32           | 32         | 32       | 32      | 32         | 32     | 32     | 32    |
| 33    | 33          | 33           | 33         | 33       | 33      | 33         | 33     | 33     | 33    |
| 34    | 34          | 34           | 34         | 34       | 34      | 34         | 34     | 34     | 34    |
| 35    | 35          | 35           | 35         | 35       | 35      | 35         | 35     | 35     | 35    |
| 36    | 36          | 36           | 36         | 36       | 36      | 36         | 36     | 36     | 36    |
| 37    | 37          | 37           | 37         | 37       | 37      | 37         | 37     | 37     | 37    |
| 38    | 38          | 38           | 38         | 38       | 38      | 38         | 38     | 38     | 38    |
| 39    | 39          | 39           | 39         | 39       | 39      | 39         | 39     | 39     | 39    |
| 40    | 40          | 40           | 40         | 40       | 40      | 40         | 40     | 40     | 40    |
| 41    | 41          | 41           | 41         | 41       | 41      | 41         | 41     | 41     | 41    |
| 42    | 42          | 42           | 42         | 42       | 42      | 42         | 42     | 42     | 42    |
| 43    | 43          | 43           | 43         | 43       | 43      | 43         | 43     | 43     | 43    |
| 44    | 44          | 44           | 44         | 44       | 44      | 44         | 44     | 44     | 44    |
| 45    | 45          | 45           | 45         | 45       | 45      | 45         | 45     | 45     | 45    |
| 46    | 46          | 46           | 46         | 46       | 46      | 46         | 46     | 46     | 46    |
| 47    | 47          | 47           | 47         | 47       | 47      | 47         | 47     | 47     | 47    |
| 48    | 48          | 48           | 48         | 48       | 48      | 48         | 48     | 48     | 48    |
| 49    | 49          | 49           | 49         | 49       | 49      | 49         | 49     | 49     | 49    |
| 50    | 50          | 50           | 50         | 50       | 50      | 50         | 50     | 50     | 50    |

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SMALL PICA PLAIN FACE No. 12 SOLID.

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It is for this rare, precious quality of truthfulness that I delight in many Dutch paintings, which lofty-minded people despise. I find a source of delicious sympathy in these faithful pictures of a monotonous homely existence, which has been the fate of so many more among my fellow-mortals than a life of pomp or of absolute indigence, of tragic suffering or of world-stirring actions. I turn without shrinking, from cloud-borne angels, from prophets, sibyls, and heroic warriors, to an old woman bending over her flower-pot, or eating her solitary dinner, while the noonday light, softened, perhaps, by a screen of leaves, falls on her mob-cap, and just touches the rim of her spinning-wheel, and her stone jug, and all those cheap, common things which are the precious necessaries of life to her; or I turn to that village wedding, kept between four brown walls, where an awkward bridegroom opens the dance with a high-shouldered, broad-faced bride, while elderly and middle-aged friends look on, with very irregular noses and lips, and probably with quart-pots in their hands, but with an expression of unmistakable contentment and good-will. "Foh!" says my idealistic friend, "what vulgar details! What good is there in taking all these pains to give an exact likeness of old women and clowns? What a low phase of life! what clumsy, ugly people!"

But, bless us, things may be lovable that are not altogether handsome, I hope? I am not at all sure that the majority of the human race have not been ugly, and even among those "lords of their kind," the British, squat figures, ill-shapen nostrils, and dingy complexions are



## SMALL PICA PLAIN FACE No. 9 LEADED.

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## SMALL PICA OLD STYLE No. 1 LEADED.

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## SMALL PICA OLD STYLE No. 2 LEADED.

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## LONG PRIMER PLAIN FACE No. 13 LEADED.

So I am content to tell my simple story, without trying to make things seem better than they were; dreading nothing, indeed, but falsity, which, in spite of one's best efforts, there is reason to dread. Falsehood is so easy, truth so difficult. The pencil is conscious of a delightful facility in drawing a griffin—the longer the claws, and the larger the wings, the better; but that marvellous facility, which we mistook for genius, is apt to forsake us when we want to draw a real unexaggerated lion. Examine your words well, and you will find that even when you have no motive to be false, it is a very hard thing to say the exact truth, even about your own immediate feelings—much harder than to say something fine about them which is *not* the exact truth.

It is for this rare, precious quality of truthfulness that I delight in many Dutch paintings, which lofty-minded people despise. I find a source of delicious sympathy in these faithful pictures of a monotonous homely existence, which has been the fate of so many more among my fellow-mortals than a life of pomp or of absolute indigence, of tragic suffering or of world-stirring actions. I turn without shrinking, from cloud-borne angels, from prophets, sibyls, and heroic warriors, to an old woman bending over her flower-pot, or eating her solitary dinner, while the noonday light, softened, perhaps, by a screen of leaves, falls on her mob-cap, and just touches the rim of her spinning-wheel, and her stone jug, and all those cheap, common things which are the precious necessaries of life to her; or I turn to that village wedding, kept between four brown walls, where an awkward bridegroom opens the dance with a high-shouldered, broad-faced bride, while elderly and middle-aged friends look on, with very irregular noses and lips, and probably with quart-pots in their hands, but with an expression of unmistakable contentment and good-will. “Foh!” says my idealistic friend, “what vulgar details! What good is there in taking all these pains to give an exact likeness of old women and clowns? What a low phase of life! what clumsy, ugly people!”

But, bless us, things may be lovable that are not altogether handsome, I hope? I am not at all sure that the majority of the human race have not been ugly, and even among those “lords of their kind,” the British, squat figures, ill-shapen

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All honor and reverence to the divine beauty of form! Let us cultivate it to the utmost in men, women, and children—in our gardens and in our houses; but let us love that other beauty, too, which lies in no secret of proportion, but in the secret of deep human sympathy. Paint



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NONPAREIL OLD STYLE No. 3 SOLID.

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AGATE No. 20 LEADED

64 lines, 504 words in column

7·8 words to line

Column  $2 \times 6\frac{1}{2} = 13$  square inches

39 words to square inch

Column measures  $93 \times 27 = 2511$  ems

200 words to 1000 ems

AGATE No. 20 SOLID

89 lines, 723 words in column

8·1 words in line

Column  $2 \times 6\frac{1}{2} = 13$  square inches

55 words to square inch

Column measures  $93 \times 27 = 2511$  ems

288 words to 1000 ems



So I am content to tell my simple story, without trying to make things seem better than they were; dreading nothing, indeed, but falsity, which, in spite of one's best efforts, there is reason to dread. Falsehood is so easy, truth so difficult. The pencil is conscious of a delightful facility in drawing a griffin—the longer the claws, and the larger the wings, the better; but that marvellous facility, which we mistook for genius, is apt to forsake us when we want to draw a real unexaggerated lion. Examine your words well, and you will find that even when you have no motive to be false, it is a very hard thing to say the exact truth, even about your own immediate feelings—much harder than to say something fine about them which is *not* the exact truth.

It is for this rare, precious quality of truthfulness that I delight in many Dutch paintings, which lofty-minded people despise. I find a source of delicious sympathy in these faithful pictures of a monotonous homely existence, which has been the fate of so many more among my fellow-mortals than a life of pomp or of absolute indigence, of tragic suffering or of world-stirring actions. I turn without shrinking from cloud-borne angels, from prophets, sibyls, and heroic warriors, to an old woman bending over her flower-pot, or eating her solitary dinner, while the noonday light, softened, perhaps, by a screen of leaves, falls on her mob-cap, and just touches the rim of her spinning-wheel, and her stone jug, and all those cheap, common things which are the precious necessities of life to her; or I turn to that village wedding, kept between four brown walls, where an awkward bridegroom opens the dance with a high-shouldered, broad-faced bride, while elderly and middle-aged friends look on, with very irregular noses and lips, and probably with quart-pots in their hands, but with an expression of unmistakable contentment and good-will. "Foh!" says my idealistic friend, "what vulgar details! What good is there in taking all these pains to give an exact likeness of old women and clowns? What a low phase of life! what clumsy, ugly people!"

But, bless us, things may be lovable that are not altogether handsome, I hope? I am not at all sure that the majority of the human race have not been ugly, and even among those "lords of their kind," the British, squat figures, ill-shapen nostrils, and dingy complexions are not startling exceptions. Yet there is a great deal of family love among us. I have a friend or two whose class of features is such that the Apollo curl on the summit of their brows would be decidedly trying; yet, to my certain knowledge, tender hearts have beaten for them, and their miniatures—flattering, but still not lovely—are kissed in secret by motherly lips. I have seen many an excellent matron who could never in her best days have been handsome, and yet she had a packet of yellow love-letters in a private drawer, and sweet children showered kisses on her sallow cheeks. And I believe there have been plenty of young heroes, of middle stature and feeble beards, who have felt quite sure they could never love anything more insignificant than a Diana, and yet have found themselves in middle life happily settled with a wife who waddles.

Yes! thank God; human feeling is like the mighty rivers that bless the earth; it does not wait for beauty—it flows with resistless force, and brings beauty with it.

All honor and reverence to the divine beauty of form! Let us cultivate it to the utmost in men, women, and children—in our gardens and in our houses; but let us love that other beauty, too, which lies in no secret of proportion, but in the secret of deep human sympathy. Paint us an angel, if you can, with a floating violet robe, and a face paled by the celestial light; paint us yet oftener a Madonna, turning her mild face upward, and opening her arms to welcome the divine glory; but do not impose on us any æsthetic rules which shall banish from the region of Art those old women scraping carrots with their work-worn hands, those heavy clowns taking holiday in a dingy pot-house—those rounded backs and stupid, weather-beaten faces that have bent over the spade and done the rough work of the world—those homes with their tin pans, their brown pitchers, their rough curs, and their clusters of onions. In this world there are so many of these common, coarse people, who have no picturesque sentimental wretchedness! It is so needful we should remember their existence, else we may happen to leave them quite out of our religion and philosophy, and frame lofty theories which only fit a world of extremes. Therefore let Art always remind us of them; therefore let us always have men ready to give the loving pains of a life to the faithful representing of commonplace things—men who see beauty in these commonplace things, and delight in showing how kindly the light of heaven falls on them. There are few prophets in the world—few sublimely beautiful women—few heroes. I can't afford to give all my love and reverence to such rarities; I want a great deal of those feelings for my everyday fellow-men, especially for the few in the foreground of the great multitude, whose faces I know, whose hands I touch, for whom I have to make way with kindly courtesy. Neither are picturesque lazzaroni or romantic criminals half so frequent as your common laborer, who gets his own bread, and eats it vulgarly but creditably with his own pocket-knife. It is more needful that I should have a fibre of sympathy connecting me with that vulgar citizen who weighs out my sugar in a vilely assorted cravat and waistcoat, than with the handsomest rascal in red scarf and green feathers; more needful that my heart should swell with loving admiration at some trait of gentle goodness in the faulty people who sit at the same hearth with me, or in the clergyman of my own parish, who is, perhaps, rather too corpulent, and in other respects is not an Oberlin or a Tillotson, than at the deeds of heroes whom I shall never know except by hearsay, or at the sublimest abstract of all clerical graces that was ever conceived by an able novelist.

And so I come back to Mr. Irwine, with whom I desire you to be in perfect charity, far as he may be from satisfying your demands on the clerical character. Perhaps you think he was not—as he ought to have been—a living demonstration of the benefits attached to the national church? But I am not sure of that; at least I know that the people in Broxton and Hayslope would have been very sorry to part with their clergyman, and that most faces brightened at his approach; and until it can be proved that hatred is a better thing for the soul than love, I must believe that Mr. Irwine's influence in his parish was a more wholesome one than that of the zealous Mr. Ryde, who came there twenty years afterward, when Mr. Irwine had been gathered to his fathers. It is true Mr. Ryde insisted strongly on the doctrines of the Reformation, visited his flock a great deal in their own homes, and was severe in rebuking the aberrations of the flesh—put a stop, indeed, to the Christ mas rounds of the church singers, as promoting drunkenness and too light a handling of sacred things. But I gathered from Adam Bede, to whom I talked of these matters in his old age, that few clergymen could be less successful in winning the hearts of their parishioners than Mr. Ryde. They gathered a great many notions about doctrine from him, so that almost every church-goer under fifty began to distinguish as well between the genuine gospel and what did not come precisely up to that standard, as if he had been born and bred a Dissenter; and for some time after his arrival there seemed to be quite a religious movement in that quiet rural district. "But," said

## PEARL No. 5 LEADED

67 lines, 575 words in column

8.6 words to line

Column  $2 \times 6\frac{1}{2} = 13$  square inches

44 words to square inch

Column measures  $29 \times 98 = 2842$  ems

202 words to 1000 ems

## PEARL No. 5 SOLID

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8.7 words to line

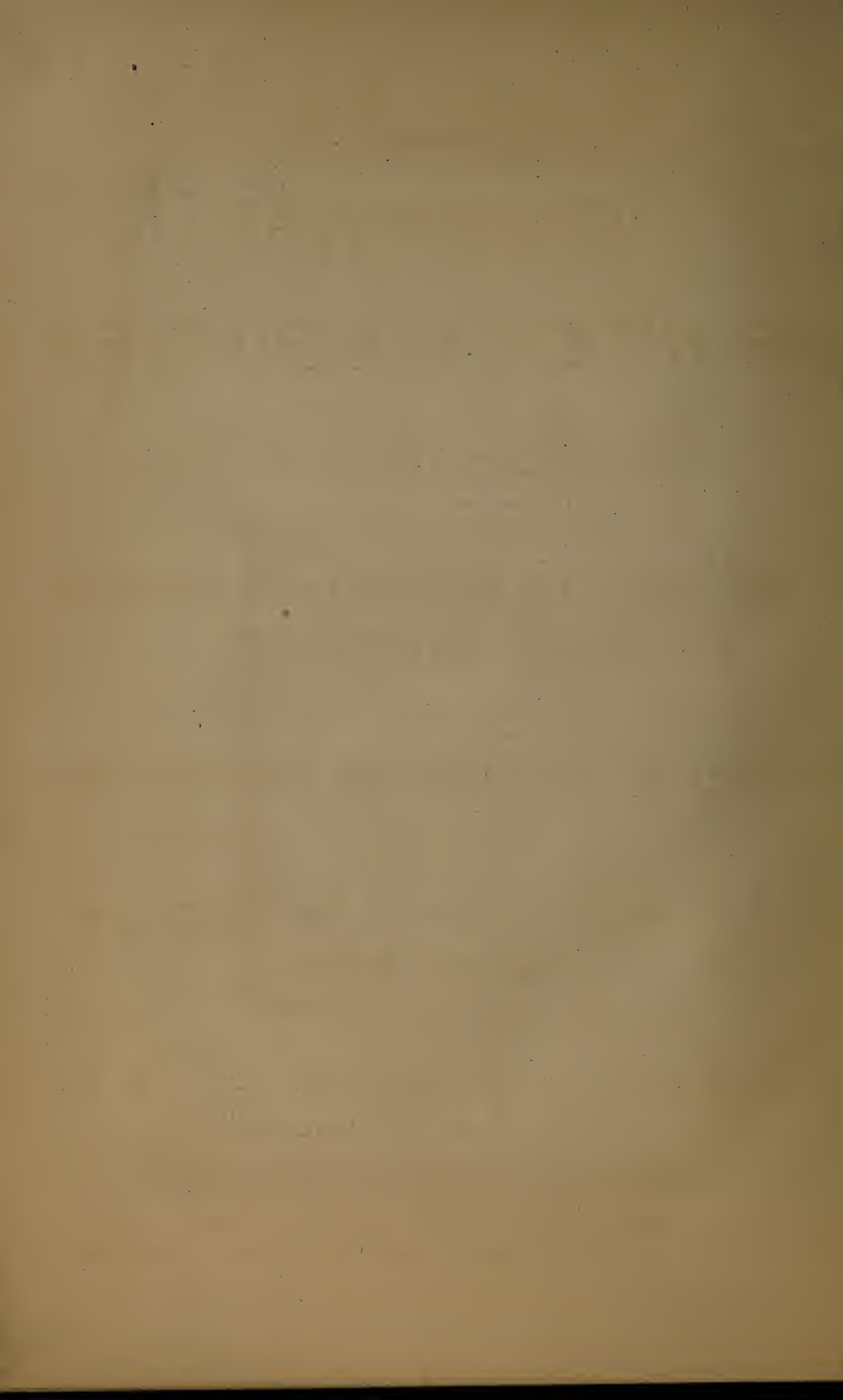
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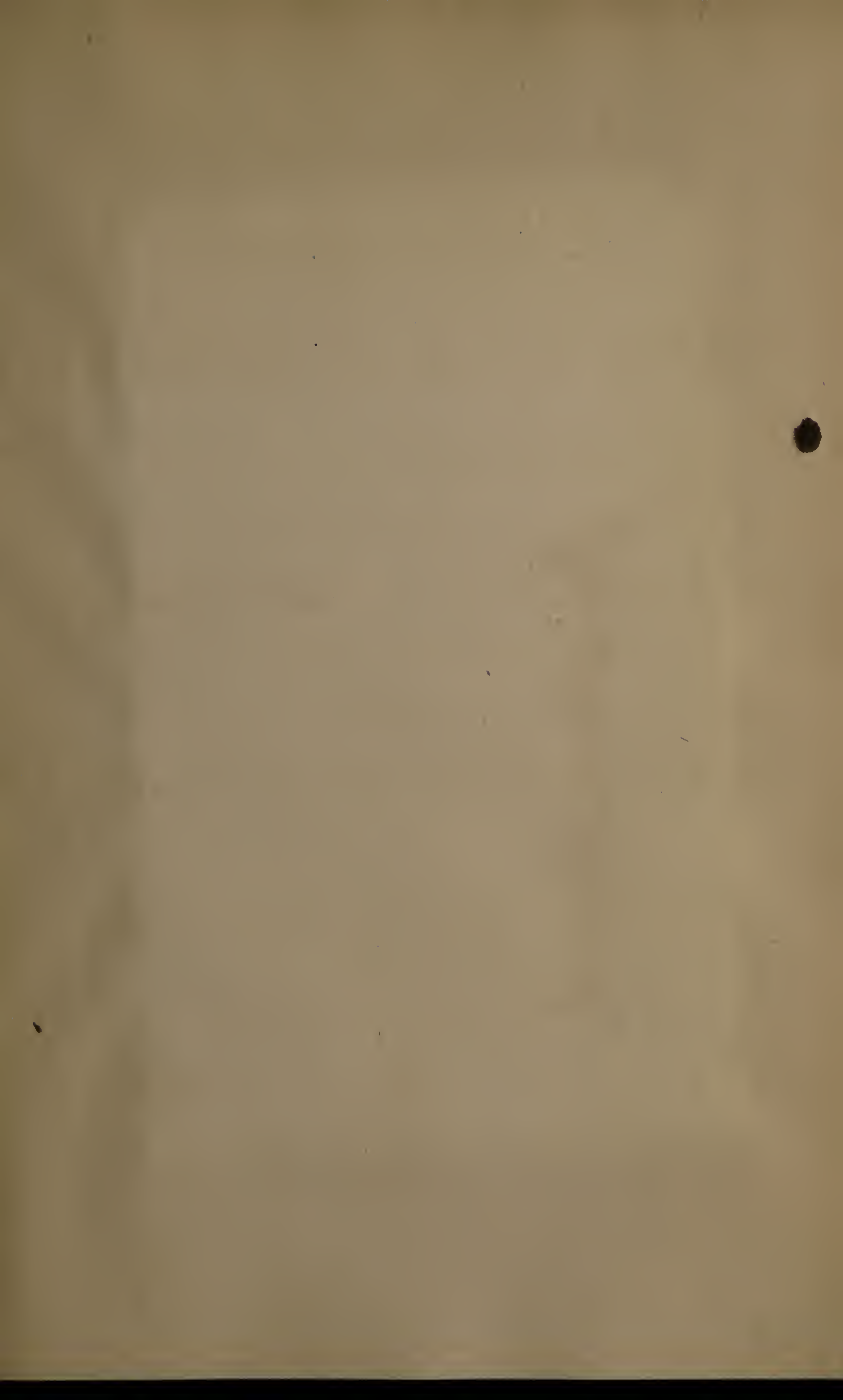
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